ILLINOIS ENVIRONMENTAL PROTECTION AGENCY WATER POLLUTION CONTROL PERMIT



PERMIT NO.: 1983-EP-1710

DATE ISSUED: March 29, 1983

FINAL PLANS, SPECIFICATIONS, APPLICATION

LOG NUMBERS: 1710-83

AND SUPPORTING DOCUMENTS

PREPARED BY: Bunker Ramo, Eltra Corp.

SUBJECT: AMPHENOL CONNECTOR DIVISION, BROADVIEW, COOK COUNTY (MSDGC -- WSW -- STP)
-- Industrial Pretreatment Facility

PERMITTEE TO OPERATE Bunker Ramo, Eltra Corp. 2801 South 25th Avenue Broadview, Illinois 60153

Permit is hereby granted to the above designated permittee to operate water pollution control facilities described as follows:

Industrial pretreatment facility consists of cyanide destruction tank, chrome reduction tank, neutralization tank, clarifier filter press and necessary appurtenances to provide treatment to electroplating wastewater with discharge to an existing 12 inch sanitary sewer, thence tributary to the MSDGC -- WSW -- STP (DAF = 288,000 GPD, 2,880 P.E.).

This Operating Permit expires on March 15, 1988.

This Permit is issued subject to the following Special Condition(s). If such Special Condition(s) require(s) additional or revised facilities, satisfactory engineering plan documents must be submitted to this Agency for review and approval for issuance of a Supplemental Permit.

 ${\tt SPECIAL}$ CONDITION 1: The operator of the herein permitted facility shall be certified by this Agency.

SPECIAL CONDITION 2: The sludge produced by this facility shall be disposed of in an Agency approved manner.

SPECIAL CONDITION 3: The issuance of this permit does not relieve the permittee of the responsibility of complying with the general pretreatment regulations (40 CFR 403) and/or any effluent limitations developed pursuant to Sections 301, 306 or 307 of the Clean Water Act.

THE STANDARD CONDITIONS OF ISSUANCE INDICATED ON THE REVERSE SIDE MUST BE COMPLIED WITH IN FULL. READ ALL CONDITIONS CAREFULLY.

TGM:YVS:sd/6755c/13 cc: EPA - Region 2

Records Unit
Permit Section

Mr. Al Griedraitis, MSDGC

DIVISION OF WATER POLLUTION CONTROL

Thomas G. McSwiggin, P.E. Manager, Permit Section

I11.532-90009

WPC-146 (10/81)

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

1710-83
FOR JEPA USE:
COG PER USE:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF WATER POLLUTION CONTROL PERMIT SECTION Springfield, Illinois 62706

MAR 17 1930

APPLICATION FOR PERMIT OR CONSTRUCTION APPROVAL

LAME AND LOCATION.		WPC-PS-1	Environmental Protection
AME AND LOCATION:	AMBUENAL DESTREATMENT	DIANT	WPC — Permit Log
Name of project:	AMPHENOL PRETREATMENT BROADVIEW, IL 6015	COOK	
	ELECTRODIATING DRI	county	NTINUOUS PH ADJUSTMENT
RIEF DESCRIPTION OF PROJECT:	AND METAL REMOVAL		THINOUS FR ADSUSTREM
OCUMENTS BEING SUBMITTED: If	the project involves any of the it	tems listed below, submit the corre	esponding schedule, and check the
Yublic Sewer Extension	E —	Septic (anks	
the subject of a trust?	Yes X No	for which a permit is requested, to , trustee or trust officer, and a t	
Plans: Title	N/A		
them Documents (Flease Specify	/		
	CK):	· · · · · · · · · · · · · · · · · · ·	
HIS IS AN APPLICATION FOR (CHE			
A. Joint Construction An B. Authorization To Cons	 d Operating Permit truct (See Instructions) NPDES Per (Does Not Include Operations)	rmit No. ILOO Issue Date	
A. Joint Construction An B. Authorization To Cons C. Construct On y Permit	 d Operating Permit truct (See Instructions) NPDES Per (Does Not Include Operations)	rmit No. ILOO Issue Date	•
A. Joint Construction An B. Authorization To Cons C. Construct Only Permit X D. Operate Only Permit (ERTIFICATIONS AND APPROVAL: 1 Certificate by Design Enginereby certify that Lam faminove, and that to the best of	d Operating Permit truct (See Instructions) NPDES Per (Does Not Include Operations) Does Not Include Construction) neer liar with the information containe my knowledge and belief such inform	ed in this application, including i	•
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Springfield, Illinois 62706

LOG #/7/0-83

N/A /F .

WE OF BOOJECT.	on N/A (Existing System)	,
AME OF PROJECT:	AGENCY ACCEPT	
TYPE OF SERVICE: Residential; Commercial; Light Industrial (Domesti	c Waste Only); YES	
Manufacturing; Recreational; Other	·	
APPROXIMATE TIME SCHEDULE: Estimated Construction Schedule: Start of Constru	ction; Date of	i
Completion : Occupancy or Operation Schedule: Date Occupancy o	r Operation Begins	
; 100% Occupancy or Operation to be Reached by		
RESIDENTIAL BUILDINGS: Number of Buildings Total Dwelling Units E		
Population		'
NON-RESIDENTIAL BUILDINGS: Number of buildings to be served under this Permit	; Describe use of	
Building(s); Principal product	(s) or activities	
; Estimated number of employees	;	
Estimated number of occupants (transients); Estimated total	l flow gpd;	
Estimated Population Equivalent (One Population Equivalent is 100 gailons of s	ewage per day, containing	
0.17 pounds of BOD ₅ and 0.20 pounds of suspended solids) flow P.E.	; BOD P.E;	
Suspended Solids P.E		,
Total flow for this project: DAF GPD; DMF GPD.		
Non domestic liquid waste is is not produced inside the buildings. If	liquid wastes other than	
prestic are produced, submit Schedule N.	j	
SUMMARY OF SEWERS:		
Pipe size - inches	RECEIVE) _ _
Total Length - feet		
Min. slope used - %	<u> Mar. 17</u> 109 <u>0</u>	_
Min. slope used - % Max. slope used - %	MAR 17 1091	_ -
	Environmental Protection A	
Max. slope used - %	7 1 1	
Max. slope used - % Min. depth of sewers - feet	Environmental Protection A	
Max. slope used - % Min. depth of sewers - feet Pipe Material & Specs.	Environmental Protection A	
Max. slope used - % Min. depth of sewers - feet Pipe Material & Specs. Joint Material & Specs.	Environmental Protection A	
Max. slope used - % Min. depth of sewers - feet Pipe Material & Specs. Joint Material & Specs. Total Manholes Max. Distance Between Manholes	Environmental Protection A	
Max. slope used - % Min. depth of sewers - feet Pipe Material & Specs. Joint Material & Specs. Total Manholes	Environmental Protection Applection Applecti	
Max. slope used - % Min. depth of sewers - feet Pipe Material & Specs. Joint Material & Specs. Total Manholes Max. Distance Between Manholes Class Bedding EXISTING SEWER SYSTEM:	Environmental Protection Applection Applecti	
Max. slope used - % Min. depth of sewers - feet Pipe Material & Specs. Joint Material & Specs. Total Manholes Max. Distance Between Manholes Class Bedding EXISTING SEWER SYSTEM: 9.1 Size and location of the existing sanitary sewer to which this project in the second sewer map been filed with this Agency? YES	Environmental Protection As WFG — Permit Log In	
Max. slope used - % Min. depth of sewers - feet Pipe Material & Specs. Joint Material & Specs. Total Manholes Max. Distance Between Manholes Class Bacding EXISTING SEWER SYSTEM: 9.1 Size and location of the existing sanitary sewer to which this project in the second sewer map been filed with this Agency? YES NO	Environmental Protection As WFG — Permit Log In	
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Max. slope used - % Min. depth of sewers - feet Pipe Material & Specs. Joint Material & Specs. Total Manholes Max. Distance Between Manholes Class Bedding EXISTING SEWER SYSTEM: 9.1 Size and location of the existing sanitary sewer to which this project is 9.2 Has a detailed sewer map been filed with this Agency? YES NO 9.3 Tributary to Interceptor(s) STATE NO Adequate Reserve Transport Capacity? YES NO 4 Tributary to Pump Station(s)	Environmental Protection As WFG — Permit Log In will connect	
Max. slope used - % Min. depth of sewers - feet Pipe Material & Specs. Joint Material & Specs. Total Manholes Max. Distance Between Manholes Class Bedding EXISTING SEWER SYSTEM: 9.1 Size and location of the existing sanitary sewer to which this project is 9.2 Has a detailed sewer map been filed with this Agency? YES NO 9.3 Tributary to Interceptor(s)	Environmental Protection As WFG — Permit Log In will connect	
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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF WATER POLLUTION CONTROL PERMIT SECTION Springfield, Illinois 62706

FOR IEPA USE:
LOG #
DATE RECEIVED:
17/0-83
RECEIVED

SCHEDULE G SLUDGE DISPOSAL & UTILIZATION

. MAR 17 1990

1. N	Name of Project Amphenol Pretreatment Plant	Environmental Protection Agency WPC — Permit Log In
2 . C	General Information	
2	Source(s) Electroplating pretreatment sludge	
2	2 Volume (on both a wet and dry basis) 36,316 gallons in 1982	
2	3 Sludge to be disposed of is Liquid Dry clay-like consistency	
2	.4 Sludge is: Aerobically digested Anaerobically digested Heat anaerobically digested F	law
	Chemically Stabilized, Composted, WTP Lime Sludge, WTP Alum Sludge	
	WTP Iron Sludge, Other	·· , · ·
	Mixture If mixture, describe	
2	.5 Is the sludge defined as hezardous by State or Federal Law X YES NO; if yes, Basis Chemica	al analysis
2	.6 Is sludge to be stored on site X YESNO; if yes, type of storage, lagoon storage tank	
	capacity of storage, 180 cu. ft. 260055 Storage Capac	
N	dethods of Sludge Disposal and/or Utilization	ver 90 days
3	.1 Land Application N/A	•
	3.1.1 Indicate the number of dry tons of sludge per year to be disposed by each of the following methods: Agricultural land Commercial Fertilizer Production Disturbed Land Reclamation Silviculture Horticultural Lands Public Distribution Other 3.1.2 Sludge Disposal Site Location. Provide a map (USGS Quadrangle map or Soil Survey Map) showing location Name of USGS Quadrangle maps (7.5 or 15 minute) or Soil Survey Map 3.1.3 Is sludge to be stored at disposal site? YES NO. If yes, storage volume	
	3.1.4 Name(s., address(es) and license number(s) of sludge hauler(s)	
	 3.1.5 Provide a copy of sludge user information sheet and signed copies for any known users. 3.1.6 In a narrative description provide operating practices and design features to prevent ground and/or surface was capacity, total acres available, soil characteristics, etc. 	ter pollution, calculations supporting storage
	capacity, total acres available, soil characteristics, etc.	
	3.1.7 Basis of Design and Operation: Submit calculations of sludge application rate for agronomic rate, organic lo	ading and metal loading rate.
3	.2 Landfilling Toon-site XX off-site	
	3.2.1 Sanitary Landfill Special Wastes Landfill Hazardous Waste LandfillXX Other	1
	32.2 Name and Location of Landfills) Chicago/CID (Chemical Waste Management 130th & Calumet Expwy, Calumet City, IL. 60409)
	3.2.3 [EPA Permit Number(s) 03160030	
	This Agency is author Illinois Revised Statu Disclosure of this info Failure to do so may p	ized to require this information under tes, 1979. Chapter 111 1/2, Section 1039 rmation is required under that Section revent this form from being processed and oplication being denied. This form has been

approved by the Forms Management Center.



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF WATER POLLUTION CONTROL PERMIT SECTION Springfield, Illinois 62706

MAR 17 1983

Environmental Protection Agency
WPC — Permit Log In

SCHEDULE J INDUSTRIAL TREATMENT WORKS CONSTRUCTION OR PRETREATMENT WORKS

1.	NAME AND LOCATION:
	1.1 Name of project Amphenol Pretreatment Plant (Broadview)
	1.2 Plant Location
	1.2.1 SW 4 22 39N 12E Third Quarter Section Section Township Range P.M.
	1.2.2 Latitude 41 • 51 · 10 'North Longitude 85 • 51 · 37 'West
	1.2.3 Name of USGS Quadrangle Map (7.5 or 15 Minutes) Berwyn, IL. N4145-W8745/7-5
2.	NARRATIVE DESCRIPTION AND SCHEMATIC WASTE FLOW DIAGRAM (see instructions)
	See attachments: Sanitary Sewer - Plot Plan, Sanitary Sewer Sample Stations,
	Pollution Control Facility - Flow Diagram, Sample Station Flow Rates
	2.1 PRINCIPAL PRODUCTS: Electrical and electronic equipment connectors
	2.2 PRINCIPAL RAW MATERIALS: Aluminum, Copper, Brass
_	
3.	DESCRIPTION OF TREATMENT FACILITIES:
	3.1 Submit a flow diagram through all treatment units showing size, volumes, detention times, organic loadings, surface settling rate,
	weir overflow rate, and other pertinent design data. Include hydraulic profiles and description of monitoring systems.
	3.2 Waste Treatment Works is: Batch, Continuous X; No. of Batches/day, No. of Shifts/day 3
	3.3 Submit plans and specifications for proposed construction. N/A (Existing System)
	3.4 Discharge is: Existing X; Will begin on N/A.
4.	DIRECT DISCHARGE IS TO: Receiving Stream N/A Municipal Sanitary Sewer X , Municipal storm or municipal com-
	bined sewer N/A. If receiving stream or storm sewer indicated complete the following:
	Name of receiving stream N/A ; tributary to;
	tributary to
5.	Is the treatment works subject to flooding? If so, what is the maximum flood elevation of record (in reference to the treatment
	works datum) and what provisions have been made to eliminate the flooding hazard? Pretreatment works not subject
	to flooding.
6.	APPROXIMATE TIME SCHEDULE: Estimated construction schedule: N/A (Existing System)
	Start of Construction; Date of Completion
	Operation Schedule; Date Operation Begins
	100% design load to be reached by year

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF WATER POLLUTION CONTROL PERMIT SECTION Springfield, Illinois 62706 POR IEPA USE: 1710-83
DATE RECEIVED: 1710-83

MAR 17 1993

SCHEDULE N WASTE CHARACTERISTICS

Environmental Protection Agency
WPC — Permit Log In

NTF

1.	Name	of Project Amphenol Pretre	eatment Plai	nt			
2.	FLO	ATAC: V	EX	ISTING	PRO	POSED-DESIGN	
	2.1	Average Flow (gpd)	200,000		288,000		
	2.2	Maximum Daily Flow (gpd)	350,000		432,000		
	2.3	TEMPERATURE (Ambient) Disch	narge to MSI).			
		Time of Ave. Intake Avg. E year Temp. F Temp.		Max. Intake Cemp. F	Max. Effluent Temp. F	Max. Temp. Out- side Mixing Zone F	
		SUMMER	·				
		WINTER				•	
	2.4	Minimum 7-day, 10-year flow: N/A		<u>V/A</u> "	IGD.		•
		Dilution Ratio: N/A; N/A					
		Stream flow rate at time of sampling N			GD.		
3.		ICAL CONSTITUENT Existing Permitted Condition					 ·
	Туре	of sample:grab (time of collection); <u>X</u> _composite	(Number of samples	per day <u>48</u>)	
	(see	instructions for analyses required)					
			DANI bia com				
		Constituent	RAW WASTE (mg/1)	TREATED EF Avg. (mg/1) Max.	UPSTREAM DOWNSTRE	
		Ammonia Nitrogen (asN)	NTF	NTF		NTF	
		Arsenic (total)	NTF	11		п	
		Barium.	NTF	11			
		Boron	NTF	11		H	
	ļ	BOD ₅				H	
	C d		NTF	"			
*	Cd	Cadmium	NTF	1.001	PPM	"	
		Carbon Chloroform Extract	NTF	NTF		11	
		Chloride	NT _F	li li	_	н	
		Chromium (total hexavalent)	NTF	11		11	
*	Cr	Chromium (total tribalent) Chromium	NTF	6.048	РРМ	"	
*	Cu	Copper	NTF	0.728		11	·
**		Cyanide (total)					 ,
	<u>Cn</u>	Cyanide (readily released @150°F & pH 4.5)	NTF NTF	.800 NTF			
	-		1111	1117			
		Dissolved Oxygen	NTF	li II		11	
	1	Fecal Coliform			ł		

NTF

NTF